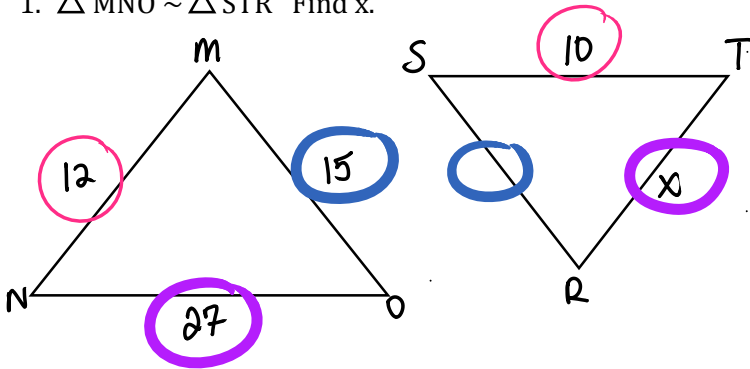


SECTION 7.1 PART II - SIMILAR TRIANGLES

1. $\triangle MNO \sim \triangle STR$ Find x .

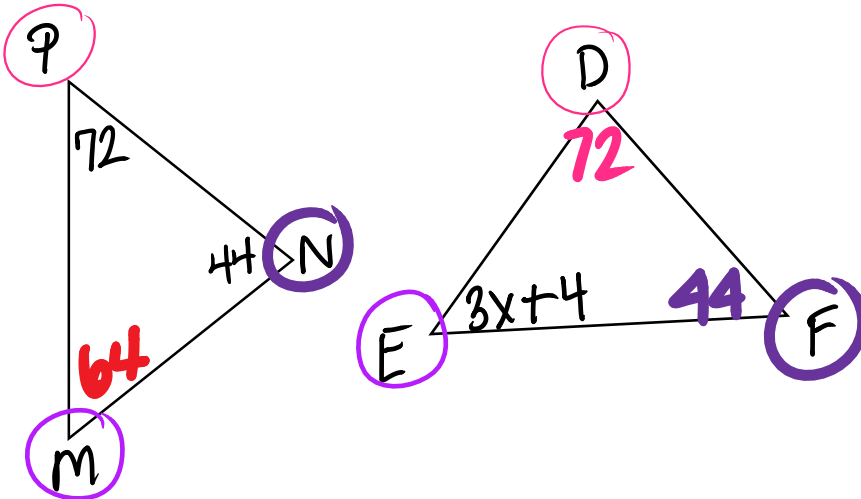


$$\frac{12}{10} = \frac{27}{x}$$

$$\frac{12x}{12} = \frac{270}{12}$$

$$x = 22.5$$

2. If $\triangle PMN \sim \triangle DEF$, find the value of x .

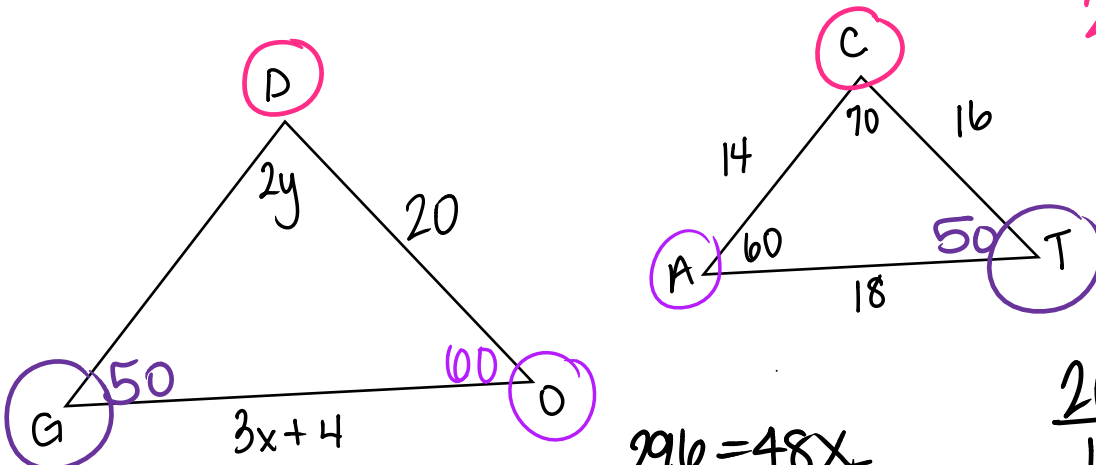


$$64 = 3x + 4$$

$$60 = 3x$$

$$x = 20$$

3. If $\triangle DOG \sim \triangle CAT$ find the value of x and y .



$$2y = 70$$

$$y = 35$$

$$\frac{296}{48} = \frac{48x}{48}$$

$$x = 6.2$$

$$\frac{20}{16} = \frac{3x + 4}{18}$$

$$360 = 16(3x + 4)$$

$$360 = 48x + 64$$